

Name: Ratul Halder
Email: ratulroyjsr@gmail.com

Phone: +8801923071365
[GitHub](#) | [Portfolio](#)

Skills and Interests

- **Programming Languages:** Python, HTML, CSS, Flutter
- **Libraries & Frameworks:** Django, Tailwind CSS, Bootstrap, Material UI
- **Databases:** PostgreSQL, MySQL, Firebase
- **Soft Skills:** Teamwork, Communication, Adaptability
- **Interest:** Software Development, Web Development, Database Management

Projects

Task Management (Web App) [Code](#) | [Live](#) (Email: admin@gmail.com || Pass: admin)

- Secured user authentication and authorization, ensuring that only authorized users can access and modify task data for enhanced security.
- Task Tracking System that simplifies the assignment, updating and management of tasks improving team efficiency and collaboration.
- Implemented role-based task management, granting admins exclusive access to assign and update tasks, set priorities and define deadlines while providing team members with necessary task details.
- Integrated real-time email notifications, ensuring users receive timely alerts for task assignments, status changes and updates facilitating better communication.
- Enabled task progress tracking with real-time status updates (Pending, In Progress, Done) allowing users to monitor the progress and identify bottlenecks.

Technologies: Django, Python, PostgreSQL, HTML, CSS (Tailwind, Bootstrap), Django ORM, Email Integration

AI Learning Platform [Code](#) | [Live](#) (Email: admin@gmail.com || Pass: admin1)

- Using Firebase Auth, ensuring only authorized access to personalized learning data.
- Personalized onboarding quiz collects learning style, subjects, skill level and goals to generate a custom 2-week syllabus with Gemini AI.
- Automated study notes and assignments generated per topic using Gemini AI converted to optimized PDFs, and stored in Firestore subcollections for scalable access.
- Intelligent YouTube video recommendations using Gemini AI for each topic prioritized by subject and channel, with progress tracking for completed videos.
- Dynamic quiz generation and evaluation using Gemini AI, with instant feedback, performance tracking, and quiz history.
- Comprehensive course progress tracking and user profile management, including profile image, email, and password updates.

Technologies: Django, Python, Firebase (Firestore, Auth, Storage), Gemini AI, WeasyPrint, AJAX

E-commerce Platform [Code](#) | [Live](#) (Email: admin@gmail.com || Pass: admin)

- Secured user authentication and authorization, ensuring that only authorized users can access features like the cart and profile, and potentially manage products.
- Integrated email functionality for features like user registration and potentially order confirmations or notifications.
- Enabled product browsing and search with filters allowing users to find desired items easily.
- Implemented a shopping cart system allowing users to add, remove, and manage items before checkout.
- Integrated Stripe for secure payment processing.

Technologies: Django, Python, PostgreSQL, HTML, CSS, JavaScript, Django ORM, Stripe Integration.

Task Management (Mobile App) [Code](#) | [Documentation](#)

- Implemented secure user authentication with email and password using Firebase Authentication, allowing users to sign up and log in to the app.
- Developed a Home screen to display a list of tasks, including task title, status, and deadline.
- Created an Add Task screen with a form to input task details such as title, description, status, priority, creation date, and deadline.
- Designed a Profile screen to display user information.
- Integrated a bottom navigation bar for easy switching between the Home, Add Task, and Profile screens.
- Applied custom styling using Google Fonts, specific color schemes, and rounded corners for a visually appealing user interface.

Technologies: Flutter, Dart, Firebase (Authentication, Cloud Firestore)

Education

Gopalganj Science and Technology University
Bachelor of Science in Computer Science and Engineering